

Yi Xiao

List of Publications by Year in descending order

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35
papers

880
citations

687363

13
h-index

477307

29
g-index

36
all docs

36
docs citations

36
times ranked

525
citing authors

#	ARTICLE	IF	CITATIONS
1	Contact acoustic nonlinearity effect on the vibro-acoustic modulation of delaminated composite structures. <i>Mechanical Systems and Signal Processing</i> , 2022, 163, 108161.	8.0	22
2	A multi-state progressive cohesive law for the prediction of unstable propagation and arrest of Mode-I delamination cracks in composite laminates. <i>Engineering Fracture Mechanics</i> , 2021, 248, 107684.	4.3	8
3	Characterization and modeling of the ratcheting behavior of unidirectional off-axis composites. <i>Composite Structures</i> , 2021, 273, 114305.	5.8	6
4	A detailed finite element analysis of composite bolted joint dynamics with multiscale modeling of contacts between rough surfaces. <i>Composite Structures</i> , 2020, 236, 111874.	5.8	20
5	Characterization and modeling of the creep behavior of fiber composites with tension and compression asymmetry. <i>International Journal of Mechanical Sciences</i> , 2020, 170, 105340.	6.7	14
6	Influence of creep on preload relaxation of bolted composite joints: Modeling and numerical simulation. <i>Composite Structures</i> , 2020, 245, 112332.	5.8	17
7	A stress-relaxation approach to determine onset of delamination in angle ply laminates. <i>Journal of Composite Materials</i> , 2020, 54, 2521-2527.	2.4	1
8	Effects of surface contact on the dynamic responses of delaminated composite plates. <i>Composite Structures</i> , 2019, 229, 111378.	5.8	10
9	Continuous monitoring of tightening condition of single-lap bolted composite joints using intrinsic mode functions of acoustic emission signals: a proof-of-concept study. <i>Structural Health Monitoring</i> , 2019, 18, 1219-1234.	7.5	14
10	Effects of contact between rough surfaces on the dynamic responses of bolted composite joints: Multiscale modeling and numerical simulation. <i>Composite Structures</i> , 2019, 211, 13-23.	5.8	34
11	Modeling of nonlinear response in loading-unloading tests for fibrous composites under tension and compression. <i>Composite Structures</i> , 2019, 207, 894-908.	5.8	19
12	Parameter identification problem in one-parameter plasticity model for fibrous composites. <i>Advanced Composite Materials</i> , 2019, 28, 29-51.	1.9	8
13	Time-temperature-dependent response and analysis of preload relaxation in bolted composite joints. <i>Journal of Reinforced Plastics and Composites</i> , 2018, 37, 460-474.	3.1	13
14	Observation and modeling of loading-unloading hysteresis behavior of unidirectional composites in compression. <i>Journal of Reinforced Plastics and Composites</i> , 2018, 37, 287-299.	3.1	6
15	An efficient finite element method for computing modal damping of laminated composites: Theory and experiment. <i>Composite Structures</i> , 2018, 184, 728-741.	5.8	34
16	Contact acoustic nonlinearity (CAN)-based continuous monitoring of bolt loosening: Hybrid use of high-order harmonics and spectral sidebands. <i>Mechanical Systems and Signal Processing</i> , 2018, 103, 280-294.	8.0	88
17	Some improvements on Sun-Chen's one-parameter plasticity model for fibrous composites - Part I: Constitutive modelling for tension-compression asymmetry response. <i>Journal of Composite Materials</i> , 2017, 51, 405-418.	2.4	16
18	Some improvements on Sun-Chen's one-parameter plasticity model for fibrous composites (Part II): Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 533-545.	2.4	10

#	ARTICLE	IF	CITATIONS
19	Vibro-acoustic modulation (VAM)-inspired structural integrity monitoring and its applications to bolted composite joints. <i>Composite Structures</i> , 2017, 176, 505-515.	5.8	44
20	Continuous Monitoring of Residual Torque of Loose Bolt in a Bolted Joint. <i>Procedia Engineering</i> , 2017, 188, 278-285.	1.2	11
21	Quantitative evaluation of residual torque of a loose bolt based on wave energy dissipation and vibro-acoustic modulation: A comparative study. <i>Journal of Sound and Vibration</i> , 2016, 383, 156-170.	3.9	73
22	A quantitative investigation on vibration durability of viscoelastic relaxation in bolted composite joints. <i>Journal of Composite Materials</i> , 2016, 50, 4041-4056.	2.4	16
23	The effect of embedded devices on structural integrity of composite laminates. <i>Composite Structures</i> , 2016, 153, 21-29.	5.8	16
24	Laser-generated lamb waves inside an aluminum plate: Comparison between theory and experiment. , 2013, , .		0
25	Modeling of Tension-Compression Asymmetry in Off-axis Nonlinear Rate-dependent Behavior of Unidirectional Carbon/Epoxy Composites. <i>Journal of Composite Materials</i> , 2010, 44, 75-94.	2.4	13
26	Tension-Compression Asymmetry in the Off-Axis Nonlinear Rate-Dependent Behavior of a Unidirectional Carbon/Epoxy Laminate at High Temperature and Incorporation into Viscoplasticity Modeling. <i>Advanced Composite Materials</i> , 2009, 18, 265-285.	1.9	13
27	A New Concept for Structural Health Monitoring of Bolted Composite Joints. <i>Key Engineering Materials</i> , 2007, 334-335, 465-468.	0.4	7
28	Innovative Design of Mechanically Fastened Joints with Damage Diagnostic Function. <i>Journal of the Japan Society for Composite Materials</i> , 2006, 32, 171-181.	0.2	1
29	Bearing strength and failure behavior of bolted composite joints (part I: Experimental investigation). <i>Composites Science and Technology</i> , 2005, 65, 1022-1031.	7.8	200
30	Bearing strength and failure behavior of bolted composite joints (part II: modeling and simulation). <i>Composites Science and Technology</i> , 2005, 65, 1032-1043.	7.8	108
31	Bearing Deformation Behavior of Carbon/Bismaleimide Composites Containing One and Two Bolted Joints. <i>Journal of Reinforced Plastics and Composites</i> , 2003, 22, 169-182.	3.1	7
32	Failure Behavior Simulation for Bolted Composite Joints Based on Damage Mechanics Approach. <i>Journal of the Japan Society for Aeronautical and Space Sciences</i> , 2003, 51, 331-338.	0.1	0
33	Bearing failure in bolted composite joints: analytical tools development. <i>Advanced Composite Materials</i> , 2002, 11, 375-391.	1.9	8
34	Relationship between Bearing Strength and Damage Progress Behavior of Mechanically Fastened Joints in CFRP Composites.. <i>Journal of the Japan Society for Composite Materials</i> , 2002, 28, 56-65.	0.2	4
35	Non-contact Measurement for Bearing Strength of Mechanically Fastened Joints in CFRP Composites.. <i>Journal of the Japan Society for Composite Materials</i> , 2000, 26, 213-218.	0.2	5